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STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10696416
Filing Date	2003-10-28
First Named Inventor	VERMA
Art Unit	2161
Examiner Name	Monica PYO
Attorney Docket Number	3222-005

/MP/	1	MOHAN, C., "ARIES/KVL: A Key-Value Locking Method for Concurrency Control of Multiaction Transactions Operating on B-Tree Indexes," Proceedings of 16th VLDB Conference, Brisbane, Australia, August 1990, pp. 392-405.	<input type="checkbox"/>
/MP/	2	MOHAN, C. et al., "ARIES/IM: An Efficient and High Concurrency Index Management Method Using Write-Ahead Logging," 1992 ACM SIGMOD, California, June 1992, pp. 371-380.	<input type="checkbox"/>

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/MP/	1	Bernstein, P.A., et al., "Concurrency Control and Recovery in Database Systems; Multiversion Concurrency Control," Concurrency Control and Recovery in Database Systems, Addison-Wesley, pages 143-166, 1987.	<input type="checkbox"/>
	2	Anonymous, "Bonus C for Dummies Lesson 17-6 – Sorting a Structure," Internet Article, Online! 2002, pgs. 1-3. www.c-for-dummies.com/lessons/chapter.17/06. Retrieved on 12-21-2004.	<input type="checkbox"/>
	3	Mohan, C., et al., "Efficient and Flexible Methods for Transient Versioning of Records to Avoid Locking by Read-Only Transaction," Proceedings of the ACM SIGMOD International Conference on Management of Data, pages 124-133, San Diego, June 2-5, 1992.	<input type="checkbox"/>
	4	Greenwald et al., "Oracle Essentials: Oracle 8 & Oracle 8i – Chapter 7, Multiuser Concurrency," Internet article, Online! October 1999, pages 1-7. www.cs.wisc.edu/cs764-1/oracle.locking.html. Retrieved on 12-23-2004.	<input type="checkbox"/>
	5	Molesky et al. " Recovery Protocols for Shared memory Database Systems"; Association of Computing Machinery; 1995; pages 11-22.	<input type="checkbox"/>
	6	Agrawal, D, Krishnaswamy, V. "Using multiversioning data for non-interfering execution of write-only transactions", SIGMOD Conference 91, 98-107.	<input type="checkbox"/>
	7	Ahuja, M., Browne, J., "Performance Evaluation of Two Concurrency control Protocols for distributed data bases with multi-versioned entities", IEEE 1988, 426-436	<input type="checkbox"/>
	8	Bayer, R., Heller H., Reiser, A., "Parallelism and Recovery in Database", Transactions on Database Systems, Vol. 5, No. 2, pp. 139-156, June 1980	<input type="checkbox"/>
	9	Bernstein, P. and Goodman, N., "Multiversion Concurrency Control – Theory and Algorithms", ACM Transactions and Database Systems, Vol. 8, No. 4, pp 465-483, December 1983.	<input type="checkbox"/>
	10	Berenson, et al., "A critique of ANSI SQL Isolation Levels, SIGMOD, San Jose, California 1995	<input type="checkbox"/>
/MP/	11	Bober, P., Carey, M. "On Mixing Queries and Transactions via Multiversion Locking", ICDE Madison, Wisconsin, 1992: 535-545.	<input type="checkbox"/>

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/MP/	12	Bober, P., Carey, M., "Indexing for multiversion locking: alternatives an performance evaluation", IEEE Transactions on Knowledge and Data Engineering, Vol. 9, No. 1, Jan-Feb 1997.	<input type="checkbox"/>
	13	Chan, A. et al, "The Implementation of an Integrated Concurrency Control and Recovery Scheme", Proceedings of the Association for Computing Machinery SIGMOD International Conference on Management of Date, Orlando, Florida, Jun. 1982	<input type="checkbox"/>
	14	Lomet, D., MLR: A Recovery Method for Multi-level systems, ACM SIGMOS 1992	<input type="checkbox"/>
	15	Kempster, T. et al., Diluting ACID, SIGMOD Record, Vol. 28, No. 4, Dec. 1999.	<input type="checkbox"/>
	16	Lamport, L., On Interprocess Communication. Part I: Basic Formalism and Part II: Algorithms, Distributed Computing 1 (2): 77-101, 1986	<input type="checkbox"/>
	17	Lomet, D., et al. "Access methods for multiversion data", D. Lomet, B. Salzberg, SIGMOD Conference 1989; 315-324,	<input type="checkbox"/>
	18	Mohan, C., "Commit_LSN: A novel and simple method for reducing locking and latching in transaction processing systems", 16th VLDB Conference (Brisbane, Australia), August 1990	<input type="checkbox"/>
	19	Mohan,C., Pirahesh, H., Lorie, R., "Efficient Flexible Methods for Transient Versioning of records to avoid locking by read-only transactions", ACM SIGMOD 1992	<input type="checkbox"/>
	20	Oracle 9i Database concepts, Chapter 22, Date Concurrency and Consistency, on-line documentation at http://doc.oracle.com , July 2001.	<input type="checkbox"/>
↓	21	Bober, P., Carey, M., "Multiversion Query Locking", P. Bober, M. Carey, Proceedings of the 18th VLDB Conference (Vancouver, British Columbia, Canada) 1992.	<input type="checkbox"/>
/MP/	22	Reed, D., PhD Thesis, "Naming and Synchronization in a Decentralized Computer System", Technical Report MIT/LCS TR-205, Massachusettes Institute of Technology, pp 1-181, September 1978	<input type="checkbox"/>

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/MP/	23	Robinson, J. et al., "Elimination of Lock Contention and Relational Databases Accessed by Read-Only Queries and On-Line Update Transactions", IBM Technical Disclosure Bulletin, pp. 180-185, Jun. 1988.	<input type="checkbox"/>
/MP/	24	Stearns, Richard E. et al., "Distributed Database Concurrency Controls Using Before-Values", Proceedings of the Association for Computing Machinery SIGMOD International Conference on management of Data, Ann Arbor, Michigan, pp. 74-83, April 1981	<input type="checkbox"/>
/MP/	25	"Times-Ten Team: In-Memory Data Management for Consumer Transactions The Times Then Approach", SIGMOD conference, Philadelphia, PA, pp. 528-529, 1999	<input type="checkbox"/>
/MP/	26	Weikum, G., A theoretical foundation of multi-level concurrency control, Proc. Of ACM PODS Conf., March 1986.	<input type="checkbox"/>
/MP/	27	Weikum G., Principles and realizations strategies of multilevel transaction management, ACM Transactions and Database Systems, Vol. 16, No. 1, pp. 132-180, March 1991	<input type="checkbox"/>

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/MP/	1	4627019		1986-12-02	Ng	
/MP/	2	4875159		1989-10-17	Cary et al.	
/MP/	3	5170480		1992-12-08	Mohan et al.	
/MP/	4	5280612		1994-01-18	Lorie et al.	
/MP/	5	5287496		1994-02-15	Chen et al.	
/MP/	6	5313629		1994-05-17	Abraham et al.	
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/MP/	8	5410697		1995-04-25	Baird et al.	

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/MP/	9	5423037		1995-06-06	Hvasshovd	
/MP/	10	5440727		1995-08-08	Bhide et al.	
/MP/	11	5452445		1995-09-19	Hallmark et al.	
/MP/	12	5485607		1996-01-16	Lomet et al.	
/MP/	13	5497483		1996-03-05	Beardsley et al.	
/MP/	14	5555404		1996-09-10	Torbjornsen et al.	
/MP/	15	5577240		1996-11-19	Demers et al.	
/MP/	16	5586310		1996-12-17	Sharman	
/MP/	17	5621795		1997-04-15	Baker et al.	
/MP/	18	5701480		1997-12-23	Raz	
/MP/	19	5708812		1998-01-13	Van Dyke et al.	

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/MP/	20	5737601		1998-04-07	Jain et al.	
/MP/	21	5758337		1998-05-26	Hammond	
/MP/	22	5781910		1998-07-14	Gostanian et al.	
/MP/	23	5796999		1998-08-18	Azagury et al.	
/MP/	24	5806075		1998-09-08	Jain et al.	
/MP/	25	5809503		1998-09-15	Aoshima	
/MP/	26	5852715		1998-12-22	Raz et al.	
/MP/	27	5870758		1999-02-09	Bamford et al.	
/MP/	28	5923833		1999-10-26	Freund et al.	
/MP/	29	5974427		1999-10-26	Reiter	
/MP/	30	6009425		1999-12-28	Mohan	

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/MP/	31	6122645		2000-09-19	Bohannon et al.	
/MP/	32	6233585		2001-05-15	Gupta et al.	
/MP/	33	6295610		2001-09-25	Ganesh et al.	
/MP/	34	6351753		2002-02-26	Jagadish et al.	
/MP/	35	6631478		2003-10-07	Wang et al.	
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/MP/	3	20040015642		2004-01-22	Moir et al.	

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/MP/	4	20040220933		2004-11-04	Walker	
/MP/	5	20040267747		2004-12-30	Choi et al.	
/MP/	6	20040139116		2004-07-15	Porter	
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